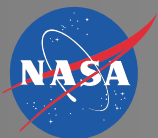
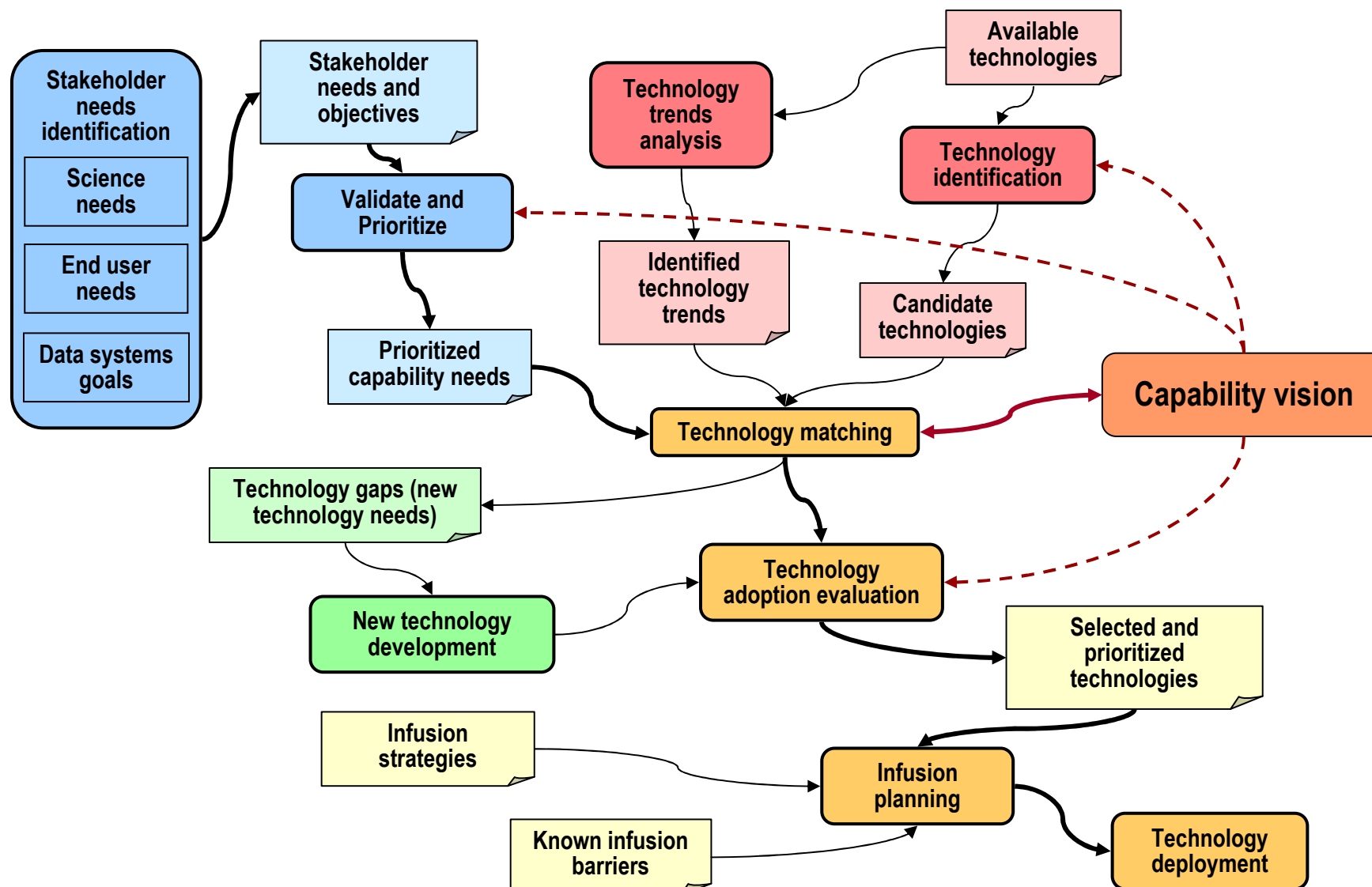


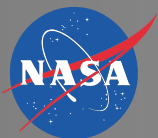
Technology Infusion Process

Steve Olding
9th ESDSWG Meeting
Thursday, October 21, 2010
New Orleans, Louisiana

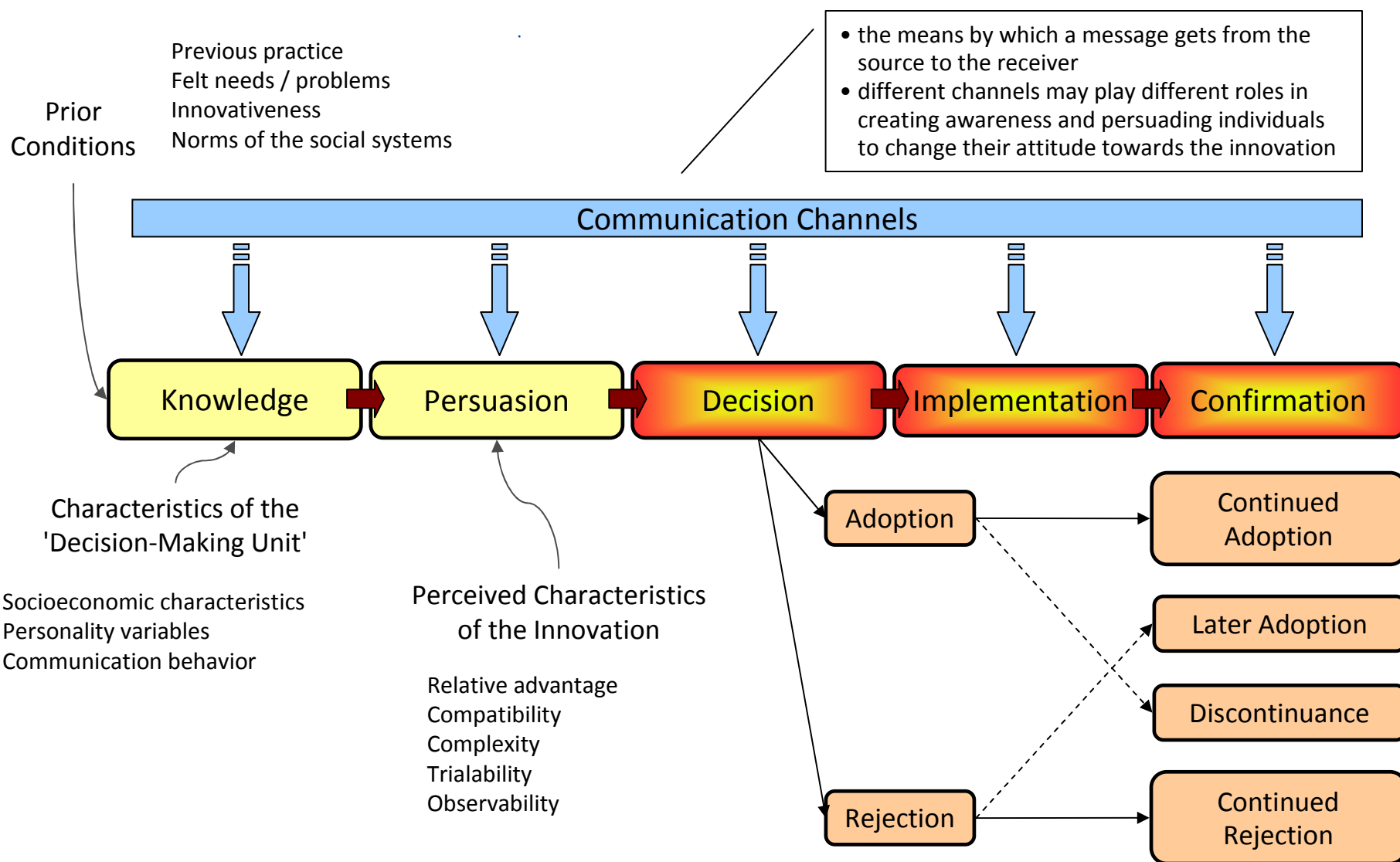


Technology Infusion Process





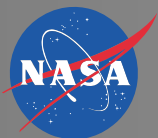
Understanding The Innovation Decision Process



Adapted from: Rogers (1995), "Diffusion of Innovations"

2010-10-21

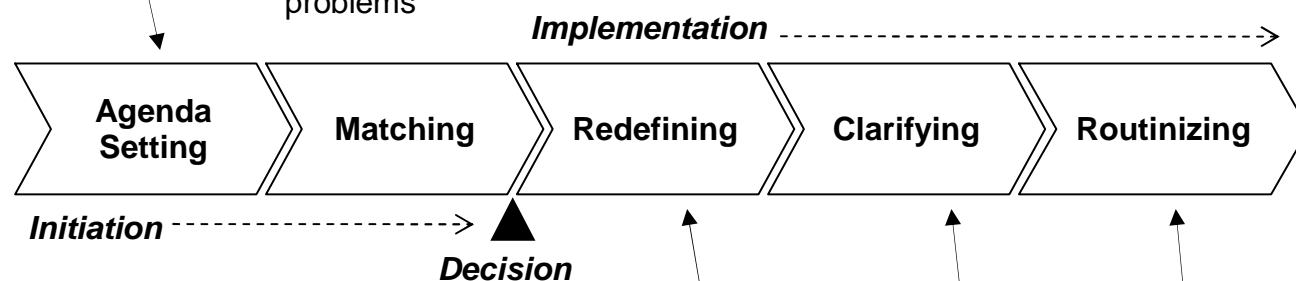
ESDSWG - Technology Infusion Working Group



Technology Infusion Planning

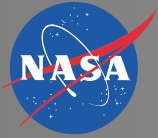
Identifying problems that create the need for innovations and surveying emerging technologies that might benefit the organization

Innovations matched against the identified problems



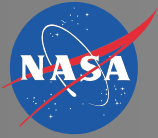
- **Objectives**

- Understand the technology infusion process
- Identify activities for each stage of the process
- Document a standard infusion plan



Technology Infusion Planning – Infusion Tasks

- **Agenda Setting**
 - Technology needs assessment. Inventory of mission requirements and derived technology needs.
 - Use cases.
- **Technology Matching**
 - Technology assessment (feature/function provided vs. needs). Technology assessment matrix with scores.
 - Cost/benefit analysis.
 - Proof of concept implementations.
 - Skills needs assessment.
 - Technology readiness assessment.
 - Risk assessment and fall-back plan.
 - Review standard barriers and solutions.



Technology Infusion Planning – Infusion Tasks

- **Redefining**
 - Review/update barriers and solutions.
 - Developing localized implementation examples.
 - Developing initial implementation guidelines.
 - Developing training courses.
 - Creating technology awareness program (e.g. presentations.)
 - Identifying monitoring metrics and processes.
- **Clarifying**
 - Training.
 - Mentoring.
 - Monitoring progress and performance.
 - Reviewing and revising guidelines and examples.
 - Developing best practices guides.
 - Sharing lessons learned.
- **Routinizing**
 - Metrics collection.
 - Continued best practices collection and sharing.